

CLAIMS

1. An authentication apparatus having a plurality of authentication mechanisms, characterized by
5 comprising:

input means for inputting authentication information of an object of authentication; determination means for determining whether the authentication information that has been input by said 10 input means is that of an object of authentication that is capable of changing over the plurality of authentication mechanisms;

display control means for displaying a list of the plurality of authentication mechanisms if it has 15 been determined by said determination means that the object of authentication is one capable of making the changeover; and

registration means for registering, as an effective authentication mechanism, an authentication 20 mechanism that has been selected from the list displayed by said display control means.

2. An authentication apparatus having a plurality of authentication mechanisms, characterized by comprising:

25 input means for inputting authentication information of an object of authentication; determination means for determining whether the

authentication information that has been input by said input means is that of an object of authentication that is capable of changing over the plurality of authentication mechanisms;

5 display control means for displaying a list of the plurality of authentication mechanisms if it has been determined by said determination means that the object of authentication is one capable of making the changeover;

10 selection means for selecting an authentication mechanism in the list displayed by said display control means; and

15 registration means for registering the authentication mechanism, which has been selected by said selection means, as an effective authentication mechanism in a case where the authentication mechanism that has been selected by said selection means has registered authentication information input by said input means.

20 3. An authentication apparatus according to claim 1, characterized in that said input means reads a card on which authentication information of an object of authentication has been recorded and inputs said authentication information.

25 4. An authentication apparatus according to claim 1, characterized in that said input means inputs the authentication information by a web browser.

5. An authentication apparatus according to any one of claims 1 to 4, characterized in that each of said plurality of authentication mechanisms has:

- storage means that has registered authentication information of an object of authentication; and authentication determination means which, in a case where entered authentication information of a user has been registered in said storage means, is for authenticating this object of authentication.
- 10 6. An authentication apparatus according to any one of claim 5, characterized by further having start-up means for starting up an authentication mechanism that has been registered as an effective authentication mechanism by said registration means.
- 15 7. An authentication method of changing over a plurality of authentication mechanisms and performing authentication, characterized by comprising:
an input step of inputting authentication information of an object of authentication;
- 20 a determination step of determining whether the authentication information that has been input at said input step is that of an object of authentication that is capable of changing over the plurality of authentication mechanisms;
- 25 a display control step of displaying a list of the plurality of authentication mechanisms if it has been determined at said determination step that the

object of authentication is one capable of making the changeover; and

a registration step of registering, as an effective authentication mechanism, an authentication mechanism that has been selected from the list displayed at said display control step.

8. An authentication method of changing over a plurality of authentication mechanisms and performing authentication, characterized by comprising:

10 an input step of inputting authentication information of an object of authentication;

 a determination step of determining whether the authentication information that has been input at said input step is that of an object of authentication that
15 is capable of changing over the plurality of authentication mechanisms;

 a display control step of displaying a list of the plurality of authentication mechanisms if it has been determined at said determination step that the
20 object of authentication is one capable of making the changeover;

 a selection step of selecting an authentication mechanism in the list displayed at said display control step; and

25 a registration step of registering the authentication mechanism, which has been selected at said selection step, as an effective authentication

mechanism in a case where the authentication mechanism that has been selected at said selection step has registered authentication information input at said input step.

- 5 9. An authentication method according to claim 7, characterized in that a card on which authentication information of an object of authentication has been recorded is read and said authentication information is input at said input step.
- 10 10. An authentication method according to claim 7, characterized in that the authentication information input by a web browser at said input step.
11. An authentication method according to any one of claims 7 to 10, characterized in that each of said
- 15 plurality of authentication mechanisms has a storage unit that registers authentication information of an object of authentication, and said method further has an authentication determination step which, in a case where entered authentication information of an object
- 20 of authentication has been registered in said storage unit, is a step of authenticating this object of authentication.
- 25 12. An authentication method according to any one of claims 7 to 10, characterized by further having a start-up step of starting up an authentication mechanism that has been registered as an effective authentication mechanism at said registration step.

13. An authentication method characterized by comprising:

an input step of inputting authentication information of an object of authentication;

5 a first authentication step of authenticating whether an object of authentication has access right to a first system using the authentication information of the object of authentication that has been input at said input step, and allowing the object of
10 authentication to access the first system if authentication succeeds;

 a second authentication step of authenticating whether the object of authentication has access right to a second system using the authentication
15 information of the object of authentication that has been input at said input step, and allowing the object of authentication to access the second system if authentication succeeds;

 a control step of controlling whether the object of authentication will be managed under management of the first system or under management of the second system; and

 a verification step of verifying that authentication of the object of authentication in the
25 second system has succeeded at said second authentication step;

wherein if an instruction that shifts the object

of authentication from management under the first system to management under the second system has been recognized, said control step controls said first authentication step and said second authentication
5 step, in order to shift the object of authentication from management under the first system to management under the second system, on the condition that the authentication of the object of authentication at said second authentication step has been verified at said
10 verification step.

14. An authentication method according to claim 13, characterized in that said control step controls said first authentication step in such a manner that the object of authentication is excluded from management
15 at said first authentication step in a case where it is verified at said verification step that the object of authentication has been authenticated at said second authentication step.

15. An authentication method according to claim 13 or
20 14, characterized in that said first authentication step authenticates user-level access privilege, and said second authentication step manages administrator-level access privilege.

16. An authentication apparatus characterized by
25 comprising:

input means for inputting authentication information of an object of authentication;

first authentication means for authenticating whether an object of authentication has access right to a first system using the authentication information of the object of authentication that has been input by 5 said input means, and allowing the object of authentication to access the first system if authentication succeeds;

second authentication means for authenticating whether the object of authentication has access right 10 to a second system using the authentication information of the object of authentication that has been input by said input means, and allowing the object of authentication to access the second system if authentication succeeds;

control means for controlling whether the object of authentication will be managed under management of the first system or under management of the second system; and

verification means for verifying that 20 authentication of the object of authentication in the second system by said second authentication means has succeeded;

wherein if an instruction that shifts the object of authentication from management under the first 25 system to management under the second system has been recognized, said control means controls said first authentication means and said second authentication

means, in order to shift the object of authentication from management under the first system to management under the second system, on the condition that the authentication of the object of authentication by said 5 second authentication means has been verified by said verification means.

17. An authentication apparatus according to claim 16, characterized in that said control means controls said first authentication means in such a manner that the 10 object of authentication is excluded from management by said first authentication means in a case where it is verified by said verification means that the object of authentication has been authenticated by said second authentication means.

15 18. An authentication apparatus according to claim 16 or 17, characterized in that said first authentication means authenticates user-level access privilege, and said second authentication means manages administrator-level access privilege.

20 19. An authentication program characterized by comprising:

code for implementing an input step of inputting authentication information of an object of authentication;

25 code for implementing a first authentication step of authenticating whether an object of authentication has access right to a first system using the

authentication information of the object of authentication that has been input at said input step, and allowing the object of authentication to access the first system if authentication succeeds;

5 code for implementing a second authentication step of authenticating whether the object of authentication has access right to a second system using the authentication information of the object of authentication that has been input at said input step,
10 and allowing the object of authentication to access the second system if authentication succeeds;

code for implementing a control step of controlling whether the object of authentication will be managed under management of the first system or
15 under management of the second system; and

code for implementing a verification step of verifying that authentication of the object of authentication in the second system has succeeded at said second authentication step;

20 wherein if an instruction that shifts the object of authentication from management under the first system to management under the second system has been recognized, said control step controls said first authentication step and said second authentication
25 step, in order to shift the object of authentication from management under the first system to management under the second system, on the condition that the

authentication of the object of authentication at said second authentication step has been verified at said verification step.